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CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

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COUNTRY East Germany

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SUBJECT Planned 1953 Furnace Construction in East German Steel and Rolling Mills

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The following chart lists [redacted] in East German steel and rolling mills. Where known, the capacity, dimensions and target date for beginning operation are given.

Type of Furnace	Capacity	Dimensions	Target Quarter for Beginning Operation
[redacted]			
Walzwerk Hennigsdorf, Kreis [redacted]			
1 rolling and heating furnace			completion of the press
2 annealing furnaces (for [redacted] steel alloys		1.5 x 3 x 0.5	IV
2 pot annealing units with preliminary heating chambers, annealing chambers and cooling troughs	Operating temperature 900°		IV
1 [redacted] furnace			
1 forging furnace			
1 electric annealing furnace		6 x 0.7 x 0.4	III
1 H_2 pot-annealing furnace			
Maxhuette, Unterwellenborn			
1 annealing furnace for a pressing unit (Presswerk)	75 tons/month	9 x 7	I
2 direct process furnaces (for the extraction of wrought iron)	400 tons/day (both together)		II
2 blast furnaces	800 tons/day (both together)		IV

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Type of Furnace	Capacity	Dimensions	Target Quarter for Beginning Operation
Groeditz (sic)[2]			
2 electro-furnaces	20 tons per hour (each)		
10 forging furnaces			
5 reheating furnaces			
4 annealing furnaces		10 x 3 x 3	
Edelstahlwerk Doehlen			
4 preheating furnaces (Anwaermeoefen)	3 tons/hour (all together)		I - IV
1 reheating furnace	1 ton/hour		III
6 car-type-bottom -annealing furnaces (Herdwagenglueheofen)		4 m^2	II
2 forging furnaces			IV
1 electro-furnace	20 tons/hour		IV
1 alloy preheating furnace		6 m^2	II
1 graphite furnace	1 ton/hour		I
1 gravity-discharge furnace for a 700 mill train	10 tons/hour		II
1 gravity-discharge furnace for a 600 mill train	10 tons/hour		III
1 gravity-discharge furnace for a 450 mill train			IV
Faradit Ziehwerke Chemnitz			
2 pipe annealing furnaces	1 ton/hour		I
Blechwalzwerk Olbernhau			
1 lift beam furnace (Hubbalkenofen)	3.5 tons/hour	1.4 x 15	I
Leichtmetallwerke Nuernberg			
1 light metal annealing furnace		1.5 m Ø x 3	III
1 light metal plate-annealing furnace		1 x 4	III
Eisenhuettenkombinat Ost			
4 cupola furnaces	9 tons/hour	1.2 m Ø Content 5 tons	II
4 double-form drying chambers (Doppelformtrockenkammern)		9.6 x 10.4	II

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	Type of Furnace	Capacity	Dimensions	Target Quarter for Beginning Operation
	Eisenhuettenkombinat Ost (Cont)			
3	single-form drying chambers		9.6 x 5.8 x 3.5	II
2	double-core drying chambers (Doppelkerntrockenkammern)		9.6 x 10.4	II
1	Annealing furnace		24.5 x 5	II
3	cooling chambers (Abkuehlkammern), all for the ingot foundry		6.5 x 5	II
1	blast furnace mixer (Roheisenmischer)		300 tons content	II
1	blast furnace mixer		1,000 tons content	II
1	blast furnace mixer		1,000 tons content	IV
1	iron-manganese smelting furnace	1,000 kg/hour		II
1	iron-manganese heating furnace	1,000 kg/hour		II
1	Thomas converter		30 tons content	II
1	Thomas converter		30 tons content	III
2	Thomas converters		Each 30 tons content	IV
1	electro-furnace		35 tons content	IV
2	Siemens-Martin furnaces	20 tons/hour	Each 120 tons content	II
2	packing-rod furnaces		11.4 x 5 x 5	II
1	converter bottom furnace		17.5 x 5.5 x 4.2	II
1	blast furnace		500 tons content	II
1	blast furnace		500 tons content	III
	for the rolling mill			
1	gravity-discharge furnace	25 tons/hour	28 x 4.6	II
2	car-type-bottom-annealing furnaces	6 tons/hour	2.7 x 20	II
1	revolving-grate shaft furnace for sintered dolomite	80 tons/day	2.6 ø, 16 m. high	II
4	lime shaft furnaces for burnt lime (Brennkalk)	100 tons/day (ea	3 x 16	II

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Type of Furnace	Capacity	Dimensions	Target Quarter for Beginning Operation
Berliner Metallhuetten- und Halbzeugwerke			
1 Cu smelting furnace		50 tons content	II
Kirchmoeser			
1 plate-annealing furnace (in the new building)		17.5 x 2	I
Walzwerk Burg			
1 continuous-heating furnace for sheet bars (Flatinen), Rickmann system 3/	3 tons/hour		II
Coswig			
2 chambers (foundry)		7 x 5 x 4	II
Mansfeld Kombinat			
1 double-chamber furnace	100 tons/month	4.8 x 3.6 x 11	III
1 selenium-grate retort furnace	0.9 tons/month	5.5 x 6 m ø	II
1 electric detonator (Zuendkasten)		2.8 x 1.8	IV
Calbe			
5 low-shaft furnaces			III
2 blast-furnace mixers (Roheisenmischer)		300 tons content	III
Stahlwerk Brandenburg			
2 Siemens-Martin furnaces		Each 150 tons content	III
1 pit heating furnace	30 tons/hour		III
2 gravity discharge furnaces	30 tons/hour (both together)		II
Walzwerk Finow			
1 gravity discharge furnaces 4/	10 tons/hour	2.2 x 22	II
Stahlwerk Riesa			
2 annealing furnaces	150 tons/month	8.5 x 2.4 x 1.5	I
1 ingot reheating furnace	10 tons/hour	4.8 x 5	II
2 block gravity discharge furnaces 5/	10 tons/hour (each)	2.3 x 20	III
2 ingot reheating furnaces	10 tons/hour		III
1 lift beam furnace	10 tons/hour		III
1 pit heating furnace	7 tons/hour	3.5 x 20	II

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Type of Furnace	Capacity	Dimensions	Target Quarter for Beginning Operation
Hennigsdorf			
2 chamber annealing furnaces (so-called "Halsmuffeloefen")	5 tons/hour	14 x 2.5	IV
1 rod-hardening furnace	3 tons/hour	4 x 8	II
1 Siemens-Martin furnace	5 tons/hour	30 m^2	II
1 electro-furnace	18 tons/hour		III
Ilsenburg			
2 pit heating furnaces (for the 5-ton program)	25 tons/hour		III
1 nickel evaporating furnace	10 tons/month		II
1 blast furnace (Verblaseofen)	2 tons/month		II
2 refining furnaces	45 tons charge		II

25X1 1/ [redacted] Comment. From the expansion program for Auerhammer it is apparent that that plant is to increase production of high-quality and special steels.

25X1 2/ [redacted]

25X1 3/ [redacted] Comment. Olbernhau refused to erect a Rickmann furnace because little trust is placed in such furnaces.

25X1 4/ [redacted] Comment. This furnace is for the new plant at Finow (Neuwerk Finow). According to a decree of the East German Council of Ministers, the furnace and/or the mill train was to be put into operation on 1 October 1953. The current bottleneck is rolling mill equipment, to be delivered by Wildau, and electrical equipment. As of 20 March 1953, Finow was rolling only sheet bars (Platinen).

25X1 5/ [redacted] Comment. Construction of gravity-discharge furnace units would seem to indicate that a new mill train is to be erected at Riesa.

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